| Index of Claims |          |                 |          |          |          |          |          |                             |          |          | Application No. |              |         |              |          |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           |          |                | Applicant(s) |      |          |            |          |          |          |         |          |          |         |          |
|-----------------|----------|-----------------|----------|----------|----------|----------|----------|-----------------------------|----------|----------|-----------------|--------------|---------|--------------|----------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------|----------------|--------------|------|----------|------------|----------|----------|----------|---------|----------|----------|---------|----------|
|                 |          |                 |          |          |          |          |          |                             |          |          | 10/646,404      |              |         |              |          |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           |          | RUSSELL ET AL. |              |      |          |            |          | L.       |          |         |          |          |         |          |
|                 |          |                 |          |          |          |          |          |                             |          |          |                 | Examiner     |         |              |          |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           |          |                | Art Unit     |      |          |            |          | П        | _        |         |          |          |         |          |
|                 |          |                 |          |          |          |          |          |                             |          |          |                 | Bruce A. Lev |         |              |          |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           |          |                |              |      |          |            |          |          |          |         |          |          |         |          |
|                 |          | upu             | PEIII    | 9 8 11   |          | 18 81    | 11) 41   |                             |          |          |                 |              |         |              | В        | ruc         | e A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>A.</u> | Le       | <u> </u>       |              |      |          |            |          | 3        | 634      |         |          |          |         |          |
|                 | ſ        |                 |          |          |          | _        |          | ٢                           | $\neg$   | ·-       | 1.              | _            |         |              |          | _           | 1 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           |          |                |              |      |          |            | $\Box$   |          |          |         |          |          | ר       |          |
|                 |          | √ Rejected –    |          |          |          |          | (1       | (Through numer<br>Cancelled |          |          |                 | aı)          | aı)     |              | N        | Non-Elected |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           | A        | Appeal         |              |      |          |            |          |          |          |         |          |          |         |          |
|                 |          | = Allowed       |          |          | d        |          |          | ÷ Restricted                |          |          |                 | d            |         |              |          | ı           | Interference                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |          |                |              | 0    | Objected |            |          |          |          |         |          |          |         |          |
|                 |          | 1               |          |          |          |          |          | L                           |          |          |                 |              |         |              |          |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           |          |                |              |      |          | l          | ш        |          |          | _       |          |          | نـ      |          |
| Clai            |          | <del>-7</del> 1 |          |          | Ç        | ate      | )        | _                           |          |          | Ci              | aim          | $\perp$ | _            |          |             | Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | _         |          |                |              | [    | Cla      | aim        | Ц        |          |          | Da      | ate      |          |         |          |
| בוב<br>בוב      | Original | 3/4/5           |          |          |          |          |          |                             |          |          | Final           | Original     |         |              |          |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           | :        |                |              |      | Final    | Original   |          |          |          |         |          |          |         |          |
|                 | 51       | 05              | ,        |          |          |          |          |                             |          |          | ᄪ               | ő            |         |              |          |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           |          |                |              | İ    | ΙŒ       | ō          |          |          |          |         |          | ł        |         |          |
| ╛               | 1        |                 |          |          |          |          |          |                             |          |          |                 | 51           |         |              |          |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           |          |                |              | į    |          | 101        | Ш        |          |          | 土       | 丁        |          |         |          |
|                 | 2        | 1               | $\perp$  |          |          | _        | $\Box$   | 4                           | $\perp$  | _        |                 | 52           |         |              |          |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           |          |                | _            |      |          | 102        |          |          |          | $\Box$  | $\Box$   | $\perp$  |         |          |
| -               | 3        | 41              |          | $\dashv$ |          | $\dashv$ | -        | $\dashv$                    | +        | 4        |                 | 53           |         | $\vdash$     | _        |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | _         |          | $\dashv$       | _            | ╌    |          | 103        | H        |          | $\vdash$ | _       | $\perp$  | _        | 4       | $\vdash$ |
| $\dashv$        | 5        | +               | -        | -        | $\dashv$ | $\dashv$ | $\dashv$ | +                           | $\dashv$ | -        |                 | 54<br>55     | +       | $\vdash$     | H        | _           | H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | _         |          | $\dashv$       | $\dashv$     | ŀ    |          | 104<br>105 | $\vdash$ | _        | $\vdash$ | +       | +        | +        | +       | +        |
| +               | 6        | H               | $\dashv$ | -        | $\dashv$ |          | +        | +                           | +        | $\dashv$ |                 | 56           |         | +            | H        |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | _         | Н        | -              | $\dashv$     | ŀ    |          | 106        | Н        | -        | $\vdash$ | ╁       | +        | +        | +       | ╁╴       |
| 寸               | 7        | 11              | $\dashv$ | ┪        |          |          |          | ┪                           | $\dashv$ | _        | _               | 57           |         | $\vdash$     | $\vdash$ |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | _         |          | $\dashv$       | 一            | ŀ    |          | 107        | H        | $\vdash$ | $\vdash$ | +       | $\dashv$ | +        | +       | ╁╴       |
| 7               | 8        | 11              | $\dashv$ |          |          |          |          | 7                           | $\top$   | 7        |                 | 58           |         | $\vdash$     |          |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Г         |          | $\dashv$       | ヿ            | Ì    |          | 108        | П        |          | $\vdash$ | +       | +        | $\dashv$ | +-      | 1-       |
| 寸               | 9        | $\top$          |          | $\neg$   |          |          |          | 7                           | $\dashv$ | 7        |                 | 59           |         |              |          |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           |          |                | 1            | Ì    |          | 109        |          |          | T        | 1       |          | T        | $\top$  | T        |
|                 | 10       | П               |          |          |          |          |          |                             |          |          |                 | 60           |         |              |          |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           |          |                |              | [    |          | 110        |          |          |          | T       | $\neg$   | $\top$   | T       | Т        |
|                 | 11       | $\prod$         |          |          |          |          |          | $\Box$                      |          |          |                 | 61           |         |              |          |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           |          |                |              | [    |          | 111        |          |          |          |         |          |          | Т       | Т        |
| $\sqcup$        | 12       | Ш               | $\sqcup$ |          |          |          |          | $\Box$                      |          | _]       |                 | 62           |         |              |          |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           |          |                |              | [    |          | 112        |          |          |          | $\perp$ |          |          |         |          |
| _               | 13       | Ш               |          | _        |          |          |          | _                           | $\perp$  | ╛        |                 | 63           |         |              | <u> </u> |             | $ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ldsymbol{ld}}}}}}$ | _         |          |                | _            | L    |          | 113        |          |          |          |         |          |          |         | L        |
| _               | 14       | Ш               |          |          |          |          |          | _                           |          | _        |                 | 64           |         | _            |          |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           |          |                | ᆜ            | Ļ    |          | 114        | Ш        |          | Ц        | $\perp$ | $\perp$  | _ _      | $\perp$ | 丄        |
| 4               | 15       | 41              | _        |          |          | _        |          | _                           | _ _      | 4        |                 | 65           |         | <u> </u>     |          |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           |          |                |              | Ļ    |          | 115        |          |          | $\Box$   |         | ᆚ        | $\perp$  | 丄       | ┸        |
| ightharpoonup   | 16       | Ш               | 4        | _        | Ш        | _        | $\Box$   | 4                           | 4        | 4        |                 | 66           |         | <u> </u>     | <u> </u> | Ш           | Щ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | L         | Ш        | $\sqcup$       | Ц            |      |          | 116        | $\perp$  |          | Щ        | $\perp$ | $\perp$  | _        | $\perp$ | ┖        |
| 4               | 17       | 41              | 4        | _        | $\sqcup$ | _        | $\Box$   | 4                           | 4        | 4        |                 | 67           |         | <del> </del> | _        | <u> </u>    | _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | L         | $\sqcup$ |                |              | ļ    | _        | 117        | $\perp$  | Ш        | Щ        | _       | 4        | $\perp$  | $\perp$ | 1        |
|                 | 18       | 44              | _        | 4        | $\sqcup$ |          |          | 4                           | $\perp$  | 4        |                 | 68           |         | ↓_           | _        | $\vdash$    | igspace                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | _         | $\sqcup$ | $\sqcup$       | _            |      |          | 118        |          | _        | $\sqcup$ | 4       | 4        |          | 1       | 1_       |
| 4               | 19       | 41              |          | _        | <b></b>  |          | -        | 4                           | _        | 4        | ļ               | 69           |         |              | $\vdash$ | $\vdash$    | $\vdash$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | _         | Ш        | <b>-</b>       |              | -    |          | 119        | $\vdash$ | Щ        | $\sqcup$ | _       | 4        | $\bot$   | $\bot$  | _        |
| 4               | 20       | +               |          |          |          |          |          | 4                           | 4        | -        |                 | 70           |         | ـــ          | $\vdash$ | $\vdash$    | $\vdash$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <u> </u>  | $\vdash$ | $\dashv$       | _            | -    |          | 120        | +        | L.       | $\sqcup$ | +       | -        | - -      | +       | ╀        |
| 4               | 21       | 44              | -        | _        | _        |          | _        | 4                           |          | -        |                 | 71           |         |              | ⊢        |             | $\vdash$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | _         | Н        | $\vdash$       | 4            | - }  |          | 121        | $\vdash$ |          | $\vdash$ | +       | +        | +        | +       | 4        |
| +               | 22       | +1              | $\dashv$ | $\dashv$ | $\dashv$ |          | $\dashv$ | -                           |          | -        |                 | 72           |         | ╄            | <b>├</b> | H           | $\vdash$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | _         | Н        | $\vdash$       | _            | - }- |          | 122        | $\vdash$ | $\vdash$ | $\dashv$ | +       | -        | +        | +       | +        |
|                 | 23       | _1_             |          |          |          |          |          | _1                          | I_       |          |                 | 73           |         | 1            | 1        | 1           | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | i         | . !      | 1              |              | - 1  |          | 123        | $\vdash$ |          | 1 1      | - 1     |          | - 1      | 1       | 1        |

| 5    | 55    | 105 |
|------|-------|-----|
| 6    | 56    | 106 |
| 7    | 57    | 107 |
| 8    | 58    | 108 |
| 9    | 59    | 109 |
| 10   | 60    | 110 |
| 11   | 61    | 111 |
| 12   | 62    | 112 |
| 13   | 63    | 113 |
| 14   | 64    | 114 |
| 15   | 65    | 115 |
| 16   | 66    | 116 |
| 17   | 67    | 117 |
| 18   | 68    | 118 |
| 19   | 69    | 119 |
| 20   | 70    | 120 |
| 21   | 71    | 121 |
| 22   | 72    | 122 |
| 23   | 73    | 123 |
| 24   | 74    | 124 |
| 25   | 75    | 125 |
| 26   | 76    | 126 |
| 27   | 77    | 127 |
| 28   | 78    | 128 |
| 29 9 | 79    | 129 |
| 30   | 80    | 130 |
|      | 81    | 131 |
| 32   | 82    | 132 |
| 33   | 83 84 | 133 |
| 35   | 85    | 134 |
| 36   | 86    | 136 |
| 37   | 87    | 137 |
| 38   | 88    | 138 |
| 39   | 89    | 139 |
| 40   | 90    | 140 |
| 41   | 91    | 141 |
| 42   | 92    | 142 |
| 43   | 93    | 143 |
| 44   | 94    | 144 |
| 45   | 95    | 145 |
| 46   | 96    | 146 |
| 47   | 97    | 147 |
| 48   | 98    | 148 |
| 49   | 99    | 149 |
| 50   | 100   | 150 |
|      |       |     |